EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
S1	3969	707/10.ccls.	USPAT	OR	OFF	2006/11/17 20:35
S2	102	707/10.ccls. and (TP (distributed adj transaction adj processing))	USPAT	OR	OFF	2006/01/04 13:23
S3	102	707/10.ccls. and (TP (distributed adj transaction adj processing))".ab" "."	USPAT	OR	OFF	2006/01/04 13:16
S4	1	707/10.ccls. and (TP (distributed adj transaction adj processing)).ab.	USPAT	OR	OFF	2006/01/04 13:15
S5	97	707/10.ccls. and (TP (distributed adj transaction adj processing)) and application	USPAT	OR	OFF	2006/01/04 13:24
S6	60	707/10.ccls. and (TP (distributed adj transaction adj processing)near application)	USPAT	OR	OFF	2006/01/04 13:27
S7	0	707/10.ccls. and ((distributed adj transaction adj processing)near application)	USPAT	OR	OFF	2006/01/04 13:28
S8	53	707/10.ccls. and (distributed adj transaction adj processing)	USPAT	OR	OFF	2006/01/04 13:51
S9	1	707/10.ccls. and (distributed adj transaction adj processing).ab.	USPAT	OR	OFF	2006/01/04 13:58
S10	7	"707"/$.ccls. and (distributed adj transaction adj processing).ab.	USPAT	OR	OFF	2006/01/04 13:30
S11	15	(distributed adj transaction adj processing).ab.	USPAT	OR	OFF	2006/01/04 13:33
S12	1	(tp adj monitor).ab.	USPAT	OR	OFF	2006/01/04 13:35
S13	15	(ODBC).ab.	USPAT	OR	OFF	2006/01/04 13:47
S14	25102	(distributed).ab.	USPAT	OR	OFF	2006/01/04 13:47
S15	329	(distributed and application and network).ab.	USPAT	OR	OFF	2006/01/04 13:48
S16	59	"707"/$.ccls. and (distributed and application and network).ab.	USPAT	OR	OFF	2006/01/04 13:49
S17	1	"707"/$.ccls. and (distributed near application near network).ab.	USPAT	OR	OFF	2006/01/04 14:29
S18	15	("20010018684" | "5379419" | "5522066" | "5640550" | "5689698" | "5764973" | "5819251" | "5819263" | "5826077" | "5909570" | "5970490" | "6016501" | "6018743" | "6023684" | "6202070").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/01/04 13:49
S19	0	("6938052").URPN..	USPAT	OR	OFF	2006/01/04 13:51
S20	1	"707"/$.ccls. and (distributed near application near network).ab.	US-PGPUB	OR	OFF	2006/01/04 13:51

S21	1	707/10.ccls. and (distributed adj transaction adj processing)	US-PGPUB	OR	OFF	2006/01/04 13:55
S22	4	707/10.ccls. and (distributed adj transaction adj coordinator)	US-PGPUB	OR	OFF	2006/01/04 13:57
S23	17	"707"/$.ccls. and (distributed adj transaction adj coordinator)	US-PGPUB	OR	OFF	2006/01/04 13:57
S24	1	707/10.ccls. and (distributed adj transaction adj processing).ab.	USPAT; DERWENT	OR	OFF	2006/01/04 13:58
S25	47	(distributed adj transaction adj processing).ab.	USPAT; DERWENT	OR	OFF	2006/01/04 13:58
S26	32	(distributed adj transaction adj processing).ab.	DERWENT	OR	OFF	2006/01/04 14:05
S27	0	"707"/$.ccls. and (connect near application near database)	DERWENT	OR	OFF	2006/01/04 14:03
S28	0	"707"/$.ccls. and (connect same application same database)	DERWENT	OR	OFF	2006/01/04 14:03
S29	4	"707"/$.ccls. and (connect near application near database)	US-PGPUB; USPAT	OR	OFF	2006/01/04 14:03
S30	9	(distributed adj transaction adj system).ab.	DERWENT	OR	OFF	2006/01/04 14:05
S31	4	(distributed adj transaction adj system).ab.	US-PGPUB; USPAT	OR	OFF	2006/01/04 14:06
S32	50	(distributed adj transaction adj system)	US-PGPUB; USPAT	OR	OFF	2006/01/04 14:19
S33	352	"707"/$.ccls. and (transaction adj manager)	US-PGPUB; USPAT	OR	OFF	2006/01/04 14:20
S34	57	"707"/$.ccls. and (transaction adj manager).ab.	US-PGPUB; USPAT	OR	OFF	2006/01/04 14:20
S35	34	(distributed near transaction near management)	USPAT	OR	OFF	2006/01/04 14:29
S36	0	"707"/$.ccls. and ((application adj4 database) near (connect connecting connection) near (transaction))	USPAT	OR	OFF	2006/01/04 14:32
S37	2061	"707"/$.ccls. and ((application adj4 database))	USPAT	OR	OFF	2006/01/04 14:31
S38	52	"707"/$.ccls. and ((application adj4 database) near (connect connecting connection))	USPAT	OR	OFF	2006/01/04 14:33
S39	68	"707"/$.ccls. and (software adj library)	USPAT	OR	OFF	2006/01/04 14:34
S40	114	"707"/$.ccls. and (software adj library)	US-PGPUB; USPAT	OR	OFF	2006/01/04 15:04
S41	27	"707"/$.ccls. and (software adj library) and (driver)	US-PGPUB; USPAT	OR	OFF	2006/01/04 15:04

S42	0	"707"/$.ccls. and (software adj library) near (driver)	US-PGPUB; USPAT	OR	OFF	2006/01/04 15:05
S43	3	"707"/$.ccls. and (software adj library) same (driver)	US-PGPUB; USPAT	OR	OFF	2006/01/04 15:08
S44	26	"707"/$.ccls. and (software adj transaction)	US-PGPUB; USPAT	OR	OFF	2006/01/04 15:13
S45	1561	"707"/$.ccls. and (application same transaction same database)	US-PGPUB; USPAT	OR	OFF	2006/01/04 15:17
S46	317	"707"/$.ccls. and (application same transaction same database same request)	US-PGPUB; USPAT	OR	OFF	2006/01/04 15:17
S47	479	"707"/$.ccls. and (application same transaction same database) and @ad>"20020711"	US-PGPUB; USPAT	OR	OFF	2006/01/04 15:18
S48	1082	"707"/$.ccls. and (application same transaction same database) and @ad<"20020711"	US-PGPUB; USPAT	OR	OFF	2006/01/04 15:19
S49	234	"707"/$.ccls. and (application same transaction same database same request) and @ad<"20020711"	US-PGPUB; USPAT	OR	OFF	2006/01/04 15:19
S50	21	"707"/$.ccls. and (application near transaction same database same request) and @ad<"20020711"	US-PGPUB; USPAT	OR	OFF	2006/01/04 15:20
S51	5	"707"/$.ccls. and (application same transaction same database same request same driver) and @ad<"20020711"	US-PGPUB; USPAT	OR	OFF	2006/01/04 15:20
S52	1	"20040088717"	US-PGPUB; USPAT	OR	OFF	2006/11/17 20:15
S53	1	procedure communicate$1 transaction switch start process database request receive$ result$1 return$1 distributed transaction coordinator application	US-PGPUB; USPAT	SAME	OFF	2006/11/17 20:18
S54	149	procedure communicate$1 transaction switch start process database request receive$ result$1 return$1 distributed transaction coordinator application	US-PGPUB; USPAT	AND	OFF	2006/11/17 20:20
S55	65	procedure communicate$1 transaction switch start process database request receive$ result$1 return$1 distributed transaction coordinator application dynamic load library	US-PGPUB; USPAT	AND	OFF	2006/11/17 20:21

S56	31	procedure communicate$1 transaction switch start process database request receive$ result$1 return$1 distributed transaction coordinator application dynamic load library "database server"	US-PGPUB; USPAT	AND	OFF	2006/11/17 20:23
S57	5	procedure communicate$1 "transaction switch" start process database request receive$ result$1 return$1 distributed transaction coordinator application dynamic load library "database server"	US-PGPUB; USPAT	AND	OFF	2006/11/17 20:30
S58	1	procedure communicate$1 "transaction switch" start process database request receive$ result$1 return$1 distributed transaction coordinator application "dynamic load library" "database server"	US-PGPUB; USPAT	AND	OFF	2006/11/17 20:30
S59	6400	707/10.ccls.	US-PGPUB; USPAT	OR	OFF	2006/11/17 20:36
S60	5638	707/104.1.ccls.	US-PGPUB; USPAT	OR	OFF	2006/11/17 20:36

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1 File servers for network-based distributed systems   ■

Liba Svobodova
December 1984 **ACM Computing Surveys (CSUR)**, Volume 16 Issue 4
Publisher: ACM Press

Full text available: 📄 pdf(4.23 MB)

Additional Information: full citation, references, citings, index terms, review

2 Wireless client/server computing for personal information services and applications   ■

Ahmed Elmagarmid, Jin Jing, Tetsuya Furukawa
December 1995 **ACM SIGMOD Record**, Volume 24 Issue 4
Publisher: ACM Press

Full text available: 📄 pdf(649.05 KB)   Additional Information: full citation, abstract, citings, index terms

We are witnessing a profound change in the global information infrastructure that has the potential to fundamentally impact many facets of our life. An important aspect of the evolving infrastructure is the seamless, ubiquitous wireless connectivity which engenders continuous interactions between people and interconnected computers. A challenging area of future ubiquitous wireless computing is the area of providing mobile users with integrated Personal Information Services and Applications ...

3 Highly available systems for database applications   ■

Won Kim
March 1984 **ACM Computing Surveys (CSUR)**, Volume 16 Issue 1
Publisher: ACM Press

Full text available: 📄 pdf(2.43 MB)   Additional Information: full citation, abstract, references, citings, index terms, review

As users entrust more and more of their applications to computer systems, the need for systems that are continuously operational (24 hours per day) has become even greater. This paper presents a survey and analysis of representative architectures and techniques that have been developed for constructing highly available systems for database applications. It then proposes a design of a distributed software subsystem that can serve as a unified framework for constructing database applica ...

4 Distributed transaction management: Architecture for transaction management in the CORDS multidatabase service
Gopi Attaluri, Dexter P. Bradshaw
October 1993 **Proceedings of the 1993 conference of the Centre for Advanced Studies on Collaborative research: distributed computing - Volume 2**
Publisher: IBM Press
Full text available: ▨ pdf(986.63 KB)   Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>

> The CORDS multidatabase service (MDBS) provides transparent access to multiple autonomous and possibly heterogeneous database systems distributed across a communication network. The multidatabase service manages multiple concurrent requests to read data from and write data to component databases through interleaving atomic transactions. The global transaction manager is the MDBS component that guarantees the correct execution, recovery, and global atomicity of multiple distributed global transac ...

5 Analysis of transaction management performance
D. Duchamp
November 1989 **ACM SIGOPS Operating Systems Review , Proceedings of the twelfth ACM symposium on Operating systems principles SOSP '89**, Volume 23 Issue 5
Publisher: ACM Press
Full text available: ▨ pdf(1.48 MB)   Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>citings</u>, <u>index terms</u>

> There is currently much interest in incorporating transactions into both operating systems and general-purpose programming languages. This paper provides a detailed examination of the design and performance of the transaction manager of the Camelot system. Camelot is a transaction facility that provides a rich model of transactions intended to support a wide variety of general-purpose applications. The transaction manager's principal function is to execute the protocols that ensure atomicit ...

6 Transactional workflow paradigm: its application to mobile computing
V. K. Murthy
February 1998 **Proceedings of the 1998 ACM symposium on Applied Computing**
Publisher: ACM Press
Full text available: ▨ pdf(997.50 KB)   Additional Information: <u>full citation</u>, <u>references</u>, <u>citings</u>, <u>index terms</u>

> **Keywords:** agents, intention-action protocols, mobile transactions, serializability, workflow

7 Client-server computing in mobile environments
Jin Jing, Abdelsalam Sumi Helal, Ahmed Elmagarmid
June 1999 **ACM Computing Surveys (CSUR)**, Volume 31 Issue 2
Publisher: ACM Press
Full text available: ▨ pdf(233.31 KB)   Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>citings</u>, <u>index terms</u>, <u>review</u>

> Recent advances in wireless data networking and portable information appliances have engendered a new paradigm of computing, called mobile computing, in which users carrying portable devices have access to data and information services regardless of their physical location or movement behavior. In the meantime, research addressing information access in mobile environments has proliferated. In this survey, we provide a concrete framework and categorization of the various way ...

Keywords: application adaptation, cache invalidation, caching, client/server, data dissemination, disconnected operation, mobile applications, mobile client/server, mobile compuing, mobile data, mobility awareness, survey, system application

8   An efficient and reliable reservation algorithm for mobile transactions
Ahmed Elmagarmid, Jin Jing, Omran Bukhres
December 1995   **Proceedings of the fourth international conference on Information and knowledge management**
Publisher: ACM Press
Full text available: ▢ pdf(744.08 KB)   Additional Information: full citation, references, citings, index terms

9   The impact of object technology on commercial transaction processing
Edward E. Cobb
August 1997   **The VLDB Journal — The International Journal on Very Large Data Bases**, Volume 6 Issue 3
Publisher: Springer-Verlag New York, Inc.
Full text available: ▢ pdf(649.17 KB)   Additional Information: full citation, abstract, index terms

Businesses today are searching for information solutions that enable them to compete in the global marketplace. To minimize risk, these solutions must build on existing investments, permit the best technology to be applied to the problem, and be manageable. Object technology, with its promise of improved productivity and quality in application development, delivers these characteristics but, to date, its deployment in commercial business applications has been limited. One possible reason is the ...

Keywords: Objects, Workflow, transaction processing

10   Recovery management in QuickSilver
Rober Haskin, Yoni Malachi, Gregory Chan
February 1988   **ACM Transactions on Computer Systems (TOCS)**, Volume 6 Issue 1
Publisher: ACM Press

Full text available: ▢ pdf(2.21 MB)   Additional Information: full citation, abstract, references, citings, index terms, review

This paper describes QuickSilver, developed at the IBM Almaden Research Center, which uses atomic transactions as a unified failure recovery mechanism for a client-server structured distributed system. Transactions allow failure atomicity for related activities at a single server or at a number of independent servers. Rather than bundling transaction management into a dedicated language or recoverable object manager, Quicksilver exposes the basic commit protocol and log rec ...

11   CARAT: a testbed for the performance evaluation of distributed database systems
Walt Kohler, Bao-Chyuan Jenq
November 1986   **Proceedings of 1986 ACM Fall joint computer conference**
Publisher: IEEE Computer Society Press
Full text available: ▢ pdf(1.21 MB)   Additional Information: full citation, references, citings, index terms

12   The Alpine file system
M. R. Brown, K. N. Kolling, E. A. Taft
November 1985   **ACM Transactions on Computer Systems (TOCS)**, Volume 3 Issue 4

Publisher: ACM Press

Full text available: 📄 pdf(2.95 MB)   Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>citings</u>, <u>index terms</u>, <u>review</u>

Alpine is a file system that supports atomic transactions and is designed to operate as a service on a computer network. Alpine's primary purpose is to store files that represent databases. An important secondary goal is to store ordinary files representing documents, program modules, and the like. Unlike other file servers described in the literature, Alpine uses a log-based technique to implement atomic file update. Another unusual aspect of Alpine is that it performs all commu ...

13 Mechanisms for specifying communication behavior in object oriented database systems

Paulo F. Pires, Mário Roberto F. Benevides, Marta Mattoso
March 2000 **Proceedings of the 2000 ACM symposium on Applied computing - Volume 1**
Publisher: ACM Press
Full text available: 📄 pdf(782.91 KB)   Additional Information: <u>full citation</u>, <u>references</u>, <u>index terms</u>

Keywords: communication behavior, concurrency control, concurrent transaction, nested transactions, object-oriented databases

14 Multiview access protocols for large-scale replication

Xiangning Liu, Abdelsalam Helal, Weimin Du
June 1998 **ACM Transactions on Database Systems (TODS)**, Volume 23 Issue 2
Publisher: ACM Press

Full text available: 📄 pdf(365.98 KB)   Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>citings</u>, <u>index terms</u>, <u>review</u>

The article proposes a scalable protocol for replication management in large-scale replicated systems. The protocol organizes sites and data replicas into a tree-structured, hierarchical cluster architecture. The basic idea of the protocol is to accomplish the complex task of updating replicated data with a very large number of replicas by a set of related but independently committed transactions. Each transaction is responsible for updating replicas in exactly one cluster and invoking add ...

Keywords: data replication, large-scale systems, multiview access

15 Architecture of a networked image search and retrieval system

R. Weber, J. Bollinger, T. Gross, H.-J. Schek
November 1999 **Proceedings of the eighth international conference on Information and knowledge management**
Publisher: ACM Press
Full text available: 📄 pdf(1.67 MB)   Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>index terms</u>

Large scale networked image retrieval systems face a number of problems that are not fully satisfied by current systems. On one hand, integrated solutions that store all image data centrally are often limited in terms of scalability and autonomy of data providers. On the other hand, WWW-based search engines proved to be fairly scalable, and data providers retain their autonomy. However, such engines often confront users with links to servers that are not available or to images that no longe ...

16 Industrial sessions: beyond relational tables: Coordinating backup/recovery and data

consistency between database and file systems

Suparna Bhattacharya, C. Mohan, Karen W. Brannon, Inderpal Narang, Hui-I Hsiao, Mahadevan Subramanian

June 2002 **Proceedings of the 2002 ACM SIGMOD international conference on Management of data SIGMOD '02**

Publisher: ACM Press

Full text available: 📄 pdf(1.44 MB)   Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>index terms</u>

Managing a combined store consisting of database data and file data in a robust and consistent manner is a challenge for database systems and content management systems. In such a hybrid system, images, videos, engineering drawings, etc. are stored as files on a file server while meta-data referencing/indexing such files is created and stored in a relational database to take advantage of efficient search. In this paper we describe solutions for two potentially problematic aspects of such a data ...

Keywords: DB2, content management, database backup, database recovery, datalinks

17 Heterogeneous distributed database systems for production use

Gomer Thomas, Glenn R. Thompson, Chin-Wan Chung, Edward Barkmeyer, Fred Carter, Marjorie Templeton, Stephen Fox, Berl Hartman

September 1990 **ACM Computing Surveys (CSUR)**, Volume 22 Issue 3

Publisher: ACM Press

Full text available: 📄 pdf(2.90 MB)   Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>citings</u>, <u>index terms</u>, <u>review</u>

It is increasingly important for organizations to achieve additional coordination of diverse computerized operations. To do so, it is necessary to have database systems that can operate over a distributed network and can encompass a heterogeneous mix of computers, operating systems, communications links, and local database management systems. This paper outlines approaches to various aspects of heterogeneous distributed data management and describes the characteristics and architectures of ...

18 Escrow techniques for mobile sales and inventory applications

Narayanan Krishnakumar, Ravi Jain

August 1997 **Wireless Networks**, Volume 3 Issue 3

Publisher: Kluwer Academic Publishers

Full text available: 📄 pdf(233.62 KB)   Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>citings</u>, <u>index terms</u>

We address the design of architectures and protocols for providing mobile users with integrated Personal Information Services and Applications (PISA), such as personalized news and financial information, and mobile database access. We present a system architecture for delivery of PISA based on replicated distributed servers connected to users via a personal communications services (PCS) network. The PISA architecture partitions the geographical coverage area into service areas, analogous to ...

19 Shoring up persistent applications

Michael J. Carey, David J. DeWitt, Michael J. Franklin, Nancy E. Hall, Mark L. McAuliffe, Jeffrey F. Naughton, Daniel T. Schuh, Marvin H. Solomon, C. K. Tan, Odysseas G. Tsatalos, Seth J. White, Michael J. Zwilling

May 1994 **ACM SIGMOD Record , Proceedings of the 1994 ACM SIGMOD international conference on Management of data SIGMOD '94**, Volume 23 Issue 2

Publisher: ACM Press

Full text available: 📄 pdf(1.40 MB)   Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>citings</u>, <u>index terms</u>

SHORE (Scalable Heterogeneous Object REpository) is a persistent object system under development at the University of Wisconsin. SHORE represents a merger of object-oriented database and file system technologies. In this paper we give the goals and motivation for SHORE, and describe how SHORE provides features of both technologies. We also describe some novel aspects of the SHORE architecture, including a symmetric peer-to-peer server architecture, server customization through an extensible ...

20 Efficient optimistic concurrency control using loosely synchronized clocks

Atul Adya, Robert Gruber, Barbara Liskov, Umesh Maheshwari

May 1995 **ACM SIGMOD Record , Proceedings of the 1995 ACM SIGMOD international conference on Management of data SIGMOD '95**, Volume 24 Issue 2

Publisher: ACM Press

Full text available: pdf(1.38 MB)   Additional Information: full citation, abstract, references, citings, index terms

This paper describes an efficient optimistic concurrency control scheme for use in distributed database systems in which objects are cached and manipulated at client machines while persistent storage and transactional support are provided by servers. The scheme provides both serializability and external consistency for committed transactions; it uses loosely synchronized clocks to achieve global serialization. It stores only a single version of each object, and avoids maintaining any concurrency ...

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